Developing dengue index through the integration of crowdsourcing approach [X:46a]

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Abstract

This research aims to develop a disease index system through crowdsourcing. The system is developed on the principle that the disease index must be a measure of the risk of dengue fever and monitor the trend and changing status of dengue fever in the city. The dengue index is used to serve as a warning system to healthcare practitioners and the general public. The system is developed by developing a disease index through the integration of several data sources such as dengue cases, weather data, population density, and mosquito vector data. The system is developed using a web-based platform where users can contribute data to the system. The system is designed to be user-friendly and easy to use. The dengue index is calculated based on the weighted average of the disease index of each data source. The disease index is calculated using a formula that takes into account the severity of the disease and the environmental factors that affect the transmission of the disease. The disease index is used to predict the risk of dengue fever in the city. The system is tested using real data collected from the city. The results show that the system is effective in predicting the risk of dengue fever. The system is useful for healthcare practitioners and the general public to monitor the risk of dengue fever in the city.